

LISTING OF CLAIMS

1. (Previously Presented) An electrical power generator comprising:
 - a) a water vapor generator;
 - b) a hydrogen gas generator attached to the water vapor generator, said hydrogen generator containing a substantially non-fluid substance which reacts with water vapor to generate hydrogen gas; said hydrogen generator being coupled to said water vapor generator;
 - c) a fuel cell attached to the hydrogen gas generator; said fuel cell being coupled to said hydrogen gas generator;
 - d) a porous plug or at least one valve that regulates water vapor flow to the hydrogen gas generator, and
 - e) a tensile membrane within the water vapor generator which exerts pressure directing water vapor from the water vapor generator to the hydrogen gas generator.
2. (Original) The power generator of claim 1 further comprising at least one conduit connecting the water vapor generator to the hydrogen gas generator and at least one conduit connecting the generator to the fuel cell.
3. (Original) The power generator of claim 1 further comprising a return line which directs residual water vapor and hydrogen gas from the fuel cell to the water vapor generator.
4. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with water.
5. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with a mixture of water and alcohol.
6. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with water vapor.

7. (Original) The power generator of claim 1 wherein the water vapor generator is at least partially filled with ice.

8. (Original) The power generator of claim 1 wherein the hydrogen gas generator comprises a chamber at least partially filled with a substantially non-fluid substance which reacts with water vapor to generate hydrogen gas.

9. (Original) The power generator of claim 1 wherein the hydrogen gas generator comprises a chamber at least partially filled with a substantially non-fluid substance which reacts with a mixture of alcohol and water vapor to generate hydrogen gas.

10. (Original) The power generator of claim 1 further comprising hydrogen gas initially loaded within at least one of said water vapor generator, hydrogen gas generator, fuel cell and said optional conduits.

11. (Original) The power generator of claim 1 further comprising at least one device attached to at least one of said water vapor generator, said hydrogen generator or said fuel cell for causing an initial flow of water vapor from the water vapor generator to the hydrogen gas generator.

12. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises a material selected from the group consisting of alkali metals, calcium hydride, lithium hydride, lithium aluminum hydride, $B_{10}H_{14}$, sodium borohydride, lithium borohydride and combinations thereof.

13. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises sodium borohydride.

14. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises lithium borohydride.

15. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises lithium aluminum hydride.

16. (Original) The power generator of claim 1 further comprising a hydrogen generation catalyst combined with said substantially non-fluid substance.

17. (Original) The power generator of claim 16 wherein said catalyst is selected from the group consisting of cobalt, nickel, ruthenium and alloys and combinations thereof.

18. (Original) The power generator of claim 1 further comprising at least one pump for pumping hydrogen gas and water vapor between the water vapor generator and the fuel cell.

19. (Original) The power generator of claim 18 wherein the at least one pump comprises a mesopump.

20. (Cancelled).

21. (Previously Presented) The power generator of claim 1 wherein the at least one valve comprises a mesovalve.

22. (Previously Presented) The power generator of claim 1 wherein the at least one valve is controlled by gas pressure within the power generator.

23. (Previously Presented) The power generator of claim 1 wherein the at least one valve regulates gas pressure within the power generator.

24. (Previously Presented) The power generator of claim 1 wherein said porous plugs are adjacent to said water vapor generator, said plugs substantially impeding the flow of liquid water

from said water vapor generator and substantially allowing the flow of hydrogen gas and water vapor into and out of said water vapor generator.

25. (Original) The power generator of claim 1 wherein said substantially non-fluid substance is in powder, granule or pellet form.

26. (Original) The power generator of claim 1 wherein said fuel cell is at least partially surrounded by a thermal insulator.

27. (Original) The power generator of claim 1 further comprising a heater adjacent to the fuel cell.

28. (Cancelled).

29. (Original) The power generator of claim 1 wherein the water vapor generator, the hydrogen gas generator, said fuel cell and said optional conduits are formed within a polymeric block.

30. (Original) The power generator of claim 29 wherein the polymeric block comprises a polyethylene, a polyimide, a polycarbonate, an acrylic, or combinations thereof.

31-54 (Cancelled).